



PB-003-001643

Seat No. _____

B. Sc. (Sem. VI) Examination

March / April - 2020

**Z-603 : Reprod. Physi., Embryology,
Env. Pollu. & Ecology
(Old Course)**

Faculty Code : 003

Subject Code : 001643

Time : $2\frac{1}{2}$ Hours]

[Total Marks : **70**

- Instructions :** (1) Draw neat and labeled diagram wherever necessary.
(2) Numbers to the right side indicate full marks of the questions.

1 Answer the following Questions : 20

- (1) What is Ecosystem?
- (2) What is placenta?
- (3) Which cells provide nourishment to spermatozoa?
- (4) How many pairs of somite are present in 24 hours chick embryo?
- (5) Define Food Chain.
- (6) Name the first secretion of milk in human.
- (7) _____ is full form of B.O.D.
- (8) Define fertilization?
- (9) River water mixes with seawater is known as _____
- (10) Define lactogenesis
- (11) Explain Oceanic Island.
- (12) Give the location of corona radiata in human egg cell
- (13) Define population dynamic

- (14) How much percentages of oxygen present in atmospheres?
- (15) Regeneration in lizard tail is example of _____ type of regeneration.
- (16) Erosion is which type of pollution?
- (17) In _____ layer Ozone layer is situated?
- (18) _____ heavy metal is a source of air pollution?
- (19) According to Zoogeography India is included in _____ region.
- (20) First trophic level of organisms in a terrestrial ecosystem is known as _____

- 2** (a) Write any three out of six : **6**
- (1) Regeneration in Coelenterate.
 - (2) Explain significance of artificial parthenogenesis.
 - (3) Explain significance of fertilization.
 - (4) Gastrula stage in chick.
 - (5) What is Natality?
 - (6) Explain Migration in Population Ecology.
- (b) Answer any three out of six : **9**
- (1) Describe Oxygen Cycle
 - (2) Structure of mammalian ovum.
 - (3) Neanderthal man.
 - (4) Java man
 - (S) Structure of chick egg
 - (6) Short note on Galapagos island
- (c) Answer any two out of five : **10**
- (1) Structure and function of mammary gland.
 - (2) Draw and labeled 24 hrs chick embryos.
 - (3) Structure and function of mammalian ovary.
 - (4) Describe Soil Pollution.
 - (5) Oriental region.

- 3 (a) Answer any three out of six : 6
- (1) Continental Island, Shrilanka.
 - (2) Food Chain of Pond ecosystem.
 - (3) Future prospective of man.
 - (4) Short note on food web.
 - (5) Describe area pellucida
 - (6) Define population dynamics.
- (b) Answer any three out of six : 9
- (1) Green House Effect.
 - (2) Carbon cycle.
 - (3) Palearctic region.
 - (4) J Shaped and K shaped curve
 - (5) 32 hrs of chick embryo.
 - (6) Water pollution.
- (c) Answer any two out of five : 10
- (1) Structure and function of mammalian sperm.
 - (2) Draw and labeled 72 hrs chick embryos.
 - (3) N₂ Cycle
 - (4) Placentation as per historical aspects.
 - (5) Air pollution.
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